

51. Apparatus according to claim 50, wherein the image data generator is operable to use the selected image data without modification as the generated image data.

5 52. Apparatus for processing data defining a three-dimensional computer model, comprising:

a data receiver for receiving data defining a three-dimensional computer model and data defining at least one of a position and a direction relative to the three-dimensional computer model; and

10 a computer model positioner operable to position the three-dimensional computer model relative to a predefined virtual viewing camera in dependence upon the defined position or direction.

15 53. Apparatus for processing data defining a three-dimensional computer model, comprising:

a data receiver for receiving data defining a three-dimensional computer model and data defining at least one of a position and a direction relative to the three-dimensional computer model; and

20 25 a virtual camera generator operable to generate data defining a virtual viewing camera relative to the three-dimensional computer model in dependence upon the defined position or direction.

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54. A system for recording images of a subject object, and for processing the image data to generate data defining a three-dimensional computer model of the subject object, and rendering the three-dimensional computer model to generate an image thereof to show a predetermined part of the subject object, comprising:

10 a calibration pattern having a position or direction defined relative thereto; and

15 processing means comprising:

means for processing data defining images of the subject object and calibration pattern recorded from different relative recording positions and orientations to calculate the relative positions and orientations at which the images were recorded by comparing the calibration pattern in the images with stored data defining the calibration pattern;

20 means for generating data defining a three-dimensional computer model of the subject object relative to the stored calibration pattern using the calculated positions and orientations; and

25 means for generating data defining an image of the three-dimensional computer model showing the selected part of the subject object using a viewing camera defined relative to the stored calibration pattern.

55. A system of connected computer processing apparatus
for processing images of a subject object to generate
data defining a three-dimensional computer model of the
5 subject object and for processing the three-dimensional
computer model to generate an image thereof showing a
predetermined part of the subject object, comprising:

10 a first apparatus having means for sending to a
second apparatus data defining images of a subject object
together with a calibration pattern recorded from
different relative recording positions and orientations,
the subject object being positioned relative to the
calibration pattern so that a selected part of the*
subject object which is to appear in the image of the
15 three-dimensional computer model faces in a predetermined
direction relative to the calibration pattern; and

a second apparatus having:

20 means for processing the data defining the images
to calculate the relative positions and orientations at
which the images were recorded by comparing the
calibration pattern in the images with stored data
defining the calibration pattern; and

25 means for generating data defining a three-
dimensional computer model of the subject object relative
to the stored calibration pattern using the calculated